

INTERNATIONAL SEARCH REPORT

PCT/PTO 07 FEB 2005

10/523848
International Application No
PCT/GB 03/03471A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D35/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A47J B01J C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/036162 A1 (BOTTS DAVID M ET AL) 28 March 2002 (2002-03-28) figures	4,5, 7-10,64
Y	-----	1-3,6
Y	US 5 811 004 A (FLORENCE MARK ET AL) 22 September 1998 (1998-09-22) column 5, line 1 - line 2 column 5, line 54 - line 55 figures -----	1-3,6

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

20 April 2004

Date of mailing of the international search report

06. 08. 2004

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1,4,64 and the dependent claims 2,3,5-13

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,4,64 and the dependent claims 2,3,5-13

A water treatment cartridge comprising mounting lugs provided at the upper end of the cartridge

2. claim: 14 and its dependent claim 15

A water treatment cartridge comprising a body made of a heat resistant plastics material which does not suffer degradation by gamma radiation.

3. claims: 16 and its dependent claims 17,18

A water treatment cartridge comprising a body made at least in part of a thin sheet metal material.

4. claims: 19, 20 and the dependent claims 21-23

A water treatment appliance and cartridge comprising a corresponding sealing surface.

5. claims: 24 and its dependent claims 25-28

A water treatment cartridge comprising an upper surface having an inwardly facing downwardly depending wall, said wall being inwardly tapering.

6. claims: 29 and 63 and the dependent claims 30-37

A water treatment cartridge having an upper surface provided with an annular channel, water inlet openings being provided on both the inner and outer walls of the annular channel.

7. claim: 38 and its dependent claim 39

A water treatment cartridge comprising a cartridge body and a grille arranged at the base of the body, said grille having a dished outer portion which, when arranged within the container body, is spaced from the container body such that air can escape between the container body and the dished portion of the grille.

8. claims: 40 and its dependent claims 41-44

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

A water treatment cartridge having a cartridge body which tapers in a curved manner from the top to the bottom of the cartridge.

9. claims: 45 and the dependent claims 46-49

A liquid heating appliance comprising a water treatment cartridge, means being provided on the cartridge and on a mounting location for the cartridge to prevent an incorrect cartridge being mounted therein.

10. claim: 50 and 51 and the dependent claim 52

A water treatment cartridge and a water treatment appliance comprising an actuator for resetting a usage counter for the cartridge.

11. claims: 53 and its dependent claims 54-58

A water treatment appliance comprising a chamber having an outflow opening and having a treatment cartridge mounted in fluid communication with the opening for receiving water from the chamber for treatment.

12. claims: 59 and its dependent claims 60-61

A mount for a water treatment cartridge, said mount having means to mount the cartridge and also having a seal for sealing a water receiving hopper receivable thereon.

13. claim: 62

A water treatment apparatus having a water treatment cartridge mounted in a water receiving vessel which receives a hopper for containing untreated water, said hopper having valve means which is opened by an upper surface of the cartridge when the hopper is placed on the vessel.

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002036162 A1	28-03-2002	US D455814 S1	16-04-2002
		US 6027644 A	22-02-2000
		US 5753107 A	19-05-1998
		US 6193884 B1	27-02-2001
		AU 4053197 A	25-02-1998
		WO 9805408 A1	12-02-1998

US 5811004 A	22-09-1998	AU 7527996 A	19-11-1997
		CA 2189475 A1	06-03-1998
		WO 9740909 A1	06-11-1997
